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8342006.q ...MVAARRSAASSFFLLLVLAVRVRASSDRVQERDRSALLSERG-AAGLIGRWPPTGSAVADHCSWPVGTCDA-SRVRVAVAVAAPPASGSSELAGELSPAVGLTRELSPSRGLRQEIA-REI
AK100000.q MRRRPPPPPLPMATLNTQTLLTFLLLLLAAAAAAADGGGEREALLRFKAGVASDPGGLLRGWTT-AASPDHCAPGVSCGG-NGEVVALNVSSSPGR-RLAGALSPAVAALRGERLALPSPHAL-CQPA-AI
30678490.p MEKLEVLDLEG-NLTGSLPDQFTGLRNLRVMNLGFNRV-CEIIN-SL
41410022.q
83553882.q -MSPLLLGFCLCLLFAGQVAVVASDDDRREVLEVLRFLQANRNRNRGEYDRWPESDASPSCRWAGVTCDCR-GRVTALDLSGSAISGAFCNFSSRLTAITWDLDSNDGICGEPAGL
83506490.p MVSNSFWLFLILLYSFIPISWAESRDISTLFTLRS-SETPPCSWSGIFTIGHNVAIDLSSVPLYAPFPLCIGAFQSLSVRLNFSGCCFSGELPEALGNLONLYLDSNNELTGPIPISLYNLMKMEMLVDYNSLSGQLSPFAIAQOLQBLTKLTSMSNIICGSEPP-DL
AK110011.q
15240747.p -MAFLTALFLFLFFSFSSSAIVDLSSETTLISIFKRSLENPSLLSSWNVSSASHCDWVGVTCLLGRVNLSLSPSLSLRG-QIPKEISSLKNLRELCLAGNFSGKIPPEIWNLKHLQTLDLSGSNLICLQLR-LL
57430010.q -MPPMLHAIIILLLAVAAATASAAATAPAARNSTSNCVTP-
19360014.q MP-LHSLLLALSTVVAGSVVSSP-SVCAAGGGGG-
AK102100.q MGARV-VLFLAVAVAAQAQEPNTDAYFVSRFFAKMRAA-
30682341.p MCLGLFWGYALFLSLFLKQSHCQEPNTDGFVSEFYKQMGMLSS-
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lias_TGFbR
2phk_Phk

400

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AK100000.q WSLRKRLVLDLGSNRLQGEIIPPALACAG-LQTLDSLTYNQLNGSVPAISLALPGLRLRSLASNRLLGGAIPELGGACCRSLQYLDLGSNLLVGGIIFSLGNCNSKLEALLLSSNLLDDVIPPEIGRRLRNLRLDVSRNSLSGSVPAEGL-GCVEDISVIVLSCNPYTFIGGSNSSD
30678490.p QNLTKMEEHNLGKNNLNGTVP-
41410022.q -GFVGRFRVHLVFLNQLQGSLEKDIG-DESCGKLEHLDLSGNFLTRGRPESLGKCAGLRSLLYMMTLEETIPLEFGSLQKLEVLDSVRNTLISGELHPVELG-NCSSISVIVLNSLNLYNVEEDINSVRGEADL
83553882.q AQCRCPLVNLNSHNLIAGGL-DVSGLTKLRTLDVSGNRFVGGAAASFVPAACGDLAVLNVSNGNFTGIDTGLFDGCPKLEYIDLSTNNFTG-ELWPQIARFTQFNVAENNLGGVPAATFPGG-CKRSDS
83506490.p GSLLKMDLULDLCMNFNGSISATFGNLSCLLHFADASQNNLTGSIFPGITSLTNLTLDDSSN-FEG-
AK110011.q TXPREIGGLENELLLIQLKNDLTGRIPCEISLQLQKLLHLEEQQFTGKIPWSISGLSLTELDIENDNEDABLPSSMGEGLNTOLIAKNAGLSGNMPEKGNGKKDCTVNL-
15240747.p SEIPQOLYLDSDDNFSGSLPPSF-
57430010.q GNLSCLLIVDGGNSLEGDD-EIPPIGKLSNLNSLYMGLNSFSQGIPSEIGNISLKNFAAPSCFFNGPLPKEISKLKHLAKLDSLNPKCSIPKSFGEHLNLISLNLVSAELIGLIPPELGNCSKPSKMSL
19360014.q ANLSCHLAVDLSLGSNALQG-
AK102100.q GKGARERSLDSLGSNRLAALPNDLWEVGA-
30682341.p SLEELNLSSRNAIRGDLPNNIVNFAALQVLVDVSHNAFGSALPPALGSIAALRVLDAHNLFGQGLLGTW-
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lias_TGFbR
2phk_Phk

600

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8342006.q LSEBFNMFIKGPESVIALPKLRLNAPRAGFEGNIPSNWGRCHDEMNIAENLLSGVTPRELQGCSNLKFLNLSNLGSIDNGLCPHCIAVFDVSRLNEGSTIPACAN-KGCTPQLL-DDMPSRYPSFFMSKAIAQPSSEGYCKSGNCSSVYHNFANNNLGGHSLPSFADRGNKIL
AK100000.q YGDVDDFNMFQSGI-DAVVALKLRVLNAPRATLEGEGLPRNWSACQDEMNIEGENLFGSGI-
30678490.p PPGADLTSMEDFNFYQSGI-
41410022.q DEIPEITTRLKLLKILWVPRATLEGEGRFPDGWSQDNEMNLGQNFFKGKEPVGLSKCKNLRLLDLSSRNLTGELLKESVLCMSFVDFGGNSLSGVTPDFLNNNTSCHCPVVYFDRFSIESYSDPSSVYLSTTEKAQVGTSDIDLGSDGEPAVEHNFADNNFTGTLKSIPLAQERLKRVS
83553882.q MDGVQLQALVVA-
83506490.q ANHFASEFPDSIASCSNLTYLSLWGNFGAKISAGIGELACDEIIEKKNRFDRTTPEPELNTCLSQFLDMSTNAFGKDGQGILGEFVTLKYLVHHNNYTG-CIVSSVGLRLEPLARLDSFNQFSGELPLEADMKSILKYLMPLANSFSGGIPPEYGR
AK110011.q FINALIPEIPEEFADLEAIVSFVFEVGKLSGRVPDIQKWNAREPLCQNKPSGEFLP-
15240747.p FNSLSGFLPYLESEIP-
57430010.q LLGASRQASUNASRNQFTRVSG-
19360014.q VEAESPRLSIVNSANRTRVSGNQFTRVSG-
AK102100.q GNALEDPD-
30682341.p LSPLLEPSYDNGNKRDRGSVIGAFHEQMKVIDLSSNSFSG-
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lias_TGFbR
2phk_Phk

800

610 620 630 640 650 660 670 680 690 700 710 720 730 740 750 760 770 780 790

8342006.q YAFHVVDYNNFTGSPHEILLAAQCNNEGLIVSFRDKIISGGLTEEMSTKCSAIRALDLAGNRITGVMPGNIGLLSALVKMDISRNLLLEGQIPSSF-KELKSLKFLSLAENNLSGTIPSCLG-
AK100000.q YAFLADGNNIACQLOPDLFPSKCNSSRGFIVDVSNNLITGGIPWPEIGSLCSSLVLVGLVAGNQLSGLIPTSGQQLNLYLISLDSRNRLHGGIPTPSV-KNLENLRLSLGHNLFLNGTIPTEIN-
30678490.p YIFSAGGNRLYQGFPGNLFNDNCDELKAVYVNVFSFNKLSSGRIPQCLNNMCTSLLKILDAVNQIFGPIPTSLGDLASLVAINLSSWNLQGQIPGSGLGKMAALTYLSIANNNLTGQIPQSGF-
41410022.q FCRRHRHRVVVK-RCR-
83553882.q LAELQALDLSYNGTGRIPASIGNLTSLLWMLMAGNQLSGLGIPPEIIGNCSSLLWLNLADNRLTGRIPPEMAEIGRNPAPTFEKNRKDVSVLAGSGECQAMRRWIPATYPFFNFTVMTRECRS-
83506490.p LSVLQRHLIDNNLLEGPQIPQSVGDLRNLTNLSLRGNRLSGIIPALFLNCRKLAFLDLSYNNLTGNIIFSAISHLTLLDSSLLSSNQLSGSIPAEICVGFEENEAHPDSEFLQHHLGLDLSYNLQGQIPTSIKNCAMVMVNLQGNLLNGTIPFVELGELTNLTISNLNFNEFVGPMPLWSGFLVQQLGILSNNHLDGSIPA
AK110011.q
15240747.p AASLKRIVLSDNQGIPREIGKLTSLSVLNLNANMFOGKIPWELGDCTSITLTLGLSNLQQQIPDKITALAQLQCLVLSVNNLSSGIPSKEPSAYFHQIREMPDLSFLQHHRGIPDLSYNRLSGFIPPEELGECLVWIEISLSNHHLSEIPKEMGSILKQQLNLANNQHIDE
57430010.q SMAGKFFDDLP-
19360014.q AMQGRFPFDLPP-
AK102100.q ISGLEYFVNLSSTGLLHGQIPREISS-
30682341.p LSGLEYLNLSNTNLSGHIPREITS-
lir3_IRK
lias_TGFbR
2phk_Phk

